AMENDMENTS TO THE CLAIMS

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- (Original) A method of diagnosing Mycobacterium tuberculosis infection in a human, or
 of determining whether a human has been exposed to Mycobacterium tuberculosis, comprising:
 - (i) contacting T-cells from said human with one or more of
 - (a) a peptide having the sequence shown in SEQ ID NO: 1;
 - (b) a peptide having or comprising the sequence of at least 8 consecutive amino acids of the sequence shown in SEQ ID NO: 1; or
 - (c) a peptide having or comprising a sequence which is capable of binding to a T-cell receptor which recognises a peptide as defined in (a) or (b); and
 - (ii) determining whether any of the said T-cells recognise said peptide, wherein steps (i) and (ii) are optionally carried out *in vitro*.
- 2. (Original) A method of increasing the sensitivity of a diagnostic test for diagnosing *Mycobacterium tuberculosis* infection in a human, wherein said diagnostic test comprises contacting T cells from said human with *a Mycobacterium tuberculosis* antigen which is not Rv3879c, said method additionally comprising
 - (i) contacting T-cells from said human with one or more of
 - (a) a peptide having the sequence shown in SEQ ID NO: 1;
 - (b) a peptide having or comprising the sequence of at least 8 consecutive amino acids of the sequence shown in SEO ID NO: 1; or
 - (c) a peptide having or comprising a sequence which is capable of binding to a T-cell receptor which recognises a peptide as defined in (a) or (b); and
- (ii) determining whether any of the said T-cells recognise said peptide, wherein steps (i) and (ii) are optionally carried out *in vitro*.
- 3. (Currently amended) A method according to claim 1-or 2, wherein step (i) further comprises contacting said T-cells with one or more further *Mycobacterium*

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tuberculosis T-cell antigen(s) or with an analogue(s) of said antigen(s) which is capable of binding to a T-cell receptor which recognises said antigen(s).

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- 4. (Original) A method according to claim 3, wherein said one or more further T-cell antigens include antigens encoded by the RD-1 or RD-2 region, which antigens are preferably ESAT-6 and/or CFP10; or fragments thereof which are at least 8 amino acids long.
- 5. (Currently amended) A method according to any one of claims 2 to 4, wherein said one or more further T-cell antigens include Rv3873, Rv3878 or Rv1989c; or fragments thereof which are at least 8 amino acids long.
- 6. (Currently amended) A method according to any one of the preceding-claims 1, wherein step (i) comprises contacting said sample of T-cells with two or more different peptides, each having the sequence of at least 8 consecutive amino acids of the sequence shown in SEQ ID NO: 1.
- 7. (Currently amended) A method according to any one of the preceding claims 1 wherein peptides from, or analogues of, at least five different antigens are contacted with the T cells.
- 8. (Currently amended) A method according to any one of the preceding claims 1 wherein one or more of the peptides
 - (i) represented by SEQ ID NO's 2 to 18, or
 - (ii) which bind to a T-cell which recognise (i), are contacted with the T cells.
- 9. (Currently amended) A method according to any one of the preceding-claims 1, wherein recognition of said peptide by said T-cells is determined by detecting the secretion of a cytokine from the T-cells.
- 10. (Original) A method according to claim 9, wherein the cytokine is IFN-γ.

11. (Currently amended) A method according to claim 9-or-10, wherein said cytokine is detected by allowing said cytokine to bind to an immobilised antibody specific to said cytokine and detecting the presence of the antibody/cytokine complex.

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- 12. (Currently amended) A method according to any one of the preceding claims 1, wherein said T-cells are freshly isolated ex vivo cells.
- 13. (Currently amended) A method according to any one of claims 1 to 11, wherein said T-cells have been cultured *in vitro*.
- 14. (Canceled)
- 15. (Currently amended) A diagnostic composition comprising a peptide as defined in claim 1-or 8 and optionally one or more further *Mycobacterium tuberculosis* T-cell antigens.
- 16. (Original) A composition according to claim 15 wherein said one or more further T-cell antigens are selected from
- (i) ESAT-6, CFP10, Rv3873, Rv3878, Rv1989c or fragment of any thereof which is at least 8 amino acids long; or
 - (ii) an analogue of (i) which binds to a T-cell which recognises (i).
- 17. (Currently amended) A kit for diagnosing *Mycobacterium tuberculosis* infection or exposure in a human, comprising one or more peptides as defined in claim 1 or 8 or a composition according to claim 15 or 16, and optionally a means for detecting recognition of a peptide by T-cells.
- 18. (Original) A kit according to claim 17, wherein said means for detecting recognition of a peptide by T-cells comprises an antibody to a cytokine.
- 19. (Original) A kit according to claim 18, wherein said antibody is immobilised on a solid support and wherein said kit optionally comprises a means to detect an antibody/cytokine complex.

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20. (Currently amended) A kit according to claim 18-or 19, wherein said cytokine is IFN-γ.

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- 21. (Original) A method of ascertaining the stage of a *Mycobacterium tuberculosis* infection in a human comprising determining whether there is a differential T cell response to different antigens in the human.
- 22. (Original) A method according to claim 21 wherein T cell responses to one or more of Rv3879c, ESAT-6, CFP10, Rv3873, Rv3878, Rv1989c are measured.
- 23. (Currently amended) A method according to claim 21-or 22 which is carried out to
 - (i) to determine whether the infection is recent or longstanding, or
 - (ii) to determine whether the human is latently infected or has disease, or
 - (iii) to monitor the effect of treatment.

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